Kris Reinhard Pet Rest, Inc. 1630 E US Highway 224 Ossian, IN 46777

Re: Registered Construction and Operation Status, 179-12659-00029

#### Dear Kris Reinhard:

The application from Pet Rest, Inc., received on August 25, 2000, has been reviewed. Based on the data submitted and the provisions in 326 IAC 2-5.1, it has been determined that the following incinerator for Animal Cremation Unit, to be located at 11640 S 200 E, Montpelier, IN 47359, is classified as registered:

- (a) Two (2) Incinerators for cremation of pets, identified as 1-1 and 1-2, each with a maximum capacity of 350 pounds per hour, consisting of primary, secondary and tertiary chambers, using wet scrubber as control, and exhausting to stack 1 and 2 which are 30 feet tall.
- (b) Six (6) Incinerators for cremation of pets, each with a maximum capacity of 15 pounds per hour.
- (c) Eight (8) Incinerators for cremation of pets, each with a maximum capacity of 20 pounds per hour.
- (d) Six (6) Incinerators for cremation of pets, each with a maximum capacity of 25 pounds per hour.

The following conditions shall be applicable:

- 1. Pursuant to 326 IAC 5-1-2 (Opacity Limitations) except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following:
  - (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
  - (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of 15 minutes (60 readings) in a 6-hour period as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuos opacity monitor in a six (6) hour period.
- 2. Pursuant to 326 IAC 4-2-2 these natural gas fired 15 million BTU per hour incinerators, rated at overall capacity of 1100 pounds per hour, shall:
  - (1) consist of primary and secondary chambers or the equivalent;
  - (2) be equipped with a primary burner unless burning wood products;
  - (3) comply with 326 IAC 5-1 and 326 IAC 2;
  - (4) be maintained properly as specified by the manufacturer and approved by the commissioner:
  - (5) be operated according to the manufacturer's recommendations and only burn waste approved by the commissioner;
  - (6) comply with other state and/or local rules or ordinances regarding installation and operation of incinerators;

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(7) be operated so that emissions of hazardous material including, but not limited to, viable pathogenic bacteria, dangerous chemicals or gases, or noxious odors are prevented;

- (8) not emit particulate matter in excess of three-tenths (0.3) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas at standard conditions corrected to fifty percent (50%) excess air; and
- (9) not create a nuisance or a fire hazard.
- 3. Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

  During the period between 30 and 120 days after issuance of this permit, in order to demonstrate compliance with Condition 2 (8), the Permittee shall perform stack test for PM utilizing methods as approved by the Commissioner.
- 4. Pursuant to 326 IAC 2-1.1-5 ".. shall not issue a registration..... if determined the terms and conditions of the registration .... would allow a source to cause or contribute to a violation or the National Ambient Air Quality Standard(NAAQS)", the Permittee shall construct the two stacks identified as 1 and 2, connected to incinerator identified as 1-1 and 1-2, of minimum 30 feet height above the ground level.
- 5. A copy of the no-objection letter issued by Office of Land Quality (OLQ), for burial of ashes from a similar operation located at Ossian, Indiana is attached to this letter. This approval should also be obtained for this facility.

This registration is the first air approval issued to this source. The source may operate according to 326 IAC 2-5.5. This approval covers all rules and statutes related Air Emissions from this facility. If required separate approvals shall be obtained from other branches of IDEM covering water, land or other aspects.

An authorized individual shall provide an annual notice to the Office of Air Quality that the source is in operation and in compliance with this registration pursuant to 326 IAC 2-5.1-2(f)(3). The annual notice shall be submitted to:

Compliance Data Section Office of Air Quality 100 North Senate Avenue P.O. Box 6015 Indianapolis, IN 46206-6015

no later than March 1 of each year, with the annual notice being submitted in the format attached.

An application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

Sincerely,

Paul Dubenetzky, Chief Permits Branch Office of Air Quality

GS

CC: File – Wells County
Wells County Health Department
Air Compliance – Jim Thorpe
Permit Tracking - Janet Mobley
Technical Support and Modeling - Michele Boner
Compliance Data Section - Karen Nowak

# Registration Annual Notification

This form should be used to comply with the notification requirements under 326 IAC 2-5.1-2(f)(3)

Company Name:	Pet Rest, Inc.			
Address:	11640 S 200 E,			
City:	Montpelier, IN 47359			
Authorized individual: Kris Reinhard				
Phone #:	(219) 597-7428			
Registration #:	R179-12659-00029			

I hereby certify that Pet Rest, Inc. is still in operation and is in compliance with the requirements of Registration R179-12659-00029.

Name (typed):	
Title:	
Signature:	
Date:	

## Indiana Department of Environmental Management Office of Air Quality

#### Technical Support Document (TSD) for a Registration

#### **Source Background and Description**

Source Name: Pet Rest, Inc.

Source Location: 11640 S 200 E, Montpelier, IN 47359

County: Wells SIC Code: 7261

Operation Permit No.: 179-12659-00029
Permit Reviewer: Gurinder Saini

The Office of Air Quality (OAQ) has reviewed an application from Pet Rest, Inc. relating to the construction and operation of incinerator for Animal Cremation Unit.

#### **Permitted Emission Units and Pollution Control Equipment**

The source consists of the following permitted emission units and pollution control devices:

- (a) Two (2) Incinerators for cremation of pets identified as 1-1 and 1-2, each with a maximum capacity of 350 pounds per hour, consisting of primary, secondary and tertiary chambers, using wet scrubber as control, and exhausting to stack 1 and 2.
- (b) Six (6) Incinerators for cremation of pets, each with a maximum capacity of 15 pounds per hour.
- (c) Eight (8) Incinerators for cremation of pets, each with a maximum capacity of 20 pounds per hour.
- (d) Six (6) Incinerators for cremation of pets, each with a maximum capacity of 25 pounds per hour.

#### **Unpermitted Emission Units and Pollution Control Equipment**

There are no unpermitted facilities operating at this source during this review process.

#### **Existing Approvals**

This is the first air permit application from this source.

#### **Enforcement Issue**

There are no enforcement actions pending.

#### **Stack Summary**

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature ( <sup>0</sup> F)
1	Incinerator	30	2.5	5985	300
2	Incinerator	30	2.5	5985	300

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#### Recommendation

The staff recommends to the Commissioner that the construction and operation be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

A complete application for the purposes of this review was received on August 25, 2000.

#### **Emission Calculations**

See Appendix A page 1 of this document for detailed emissions calculations.

#### Potential To Emit (of Source or Revision) Before Controls

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as Athe maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U.S. EPA, the department, or appropriate local air pollution control agency.@

Pollutant	Potential To Emit (tons/year)		
PM	16.9		
PM-10	16.9		
SO <sub>2</sub>	6.0		
VOC	7.2		
CO	24.1		
NO <sub>x</sub>	7.2		

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any criteria pollutant is greater than 5 tons per year and less than 25 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-5.1-2 and a Registration will be issued.
- (b) Fugitive Emissions
  Since this type of operation is not one of the twenty-eight (28) listed source categories
  under 326 IAC 2-2 and since there are no applicable New Source Performance Standards
  that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile
  organic compound (VOC) emissions are not counted toward determination of PSD and
  Emission Offset applicability.

#### **Ambient Air Quality Status**

The Source had proposed 24 feet stack height for two stacks. The OAQ carried out modeling exercise to determine ground level concentrations for Particulate Matter less than 10 micron size  $(PM_{10})$  after the source is constructed. The concentration of PM due to this plant was added to the background PM concentration in the region and the result was 157 micro gram per meter cube for 24 average period which is above the National Ambient Air Quality standard for this pollutant (150 micro gram per meter cube for 24 average period). OAQ recommended to the source to increase the stack height to 30 feet. This reduced the  $PM_{10}$  concentration at the boundary of plant to 140 micro gram per meter cube for 24 average period which is below the NAAQS standard.

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#### **County Attainment Status**

The source is located in Wells County.

Pollutant	Status (attainment, maintenance attainment, or unclassifiable; Severe, moderate, or marginal nonattainment)
PM-10	Attainment
SO <sub>2</sub>	Attainment
NO <sub>2</sub>	Attainment
Ozone	Attainment
СО	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) and oxides of nitrogen (NOx) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Wells County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.
- (b) Wells County has been classified as attainment or unclassifiable for all criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.

#### **Source Status**

New Source PSD Definition (emissions after controls, based on 8,760 hours of operation per year at rated capacity and/ or as otherwise limited):

Pollutant	Emissions (ton/yr)		
PM	16.9		
PM10	16.9		
SO <sub>2</sub>	6.0		
VOC	7.2		
CO	24.1		
$NO_x$	7.2		
Single HAP	-		
Combination HAPs	- -		

(a) This new source is **not** a major stationary source because no attainment pollutant is emitted at a rate of 250 tons per year or greater and it is not in one of the 28 listed source categories. Therefore, pursuant to 326 IAC 2-2, and 40 CFR 52.21, the PSD requirements do not apply.

#### Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This new source is not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

- (a) each criteria pollutant is less than 100 tons per year.
- (b) a single hazardous air pollutant (HAP) is less than 10 tons per year, and

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(c) any combination of HAPs is less than 25 tons/year.

This is the first air approval issued to this source.

#### **Federal Rule Applicability**

- (a) The incinerators are not subject to New Source Performance Standards (NSPS), 326 IAC 12 (40 CFR Part 60.50, Subpart E) because the charge capacity is 13.2 tons per day which is less than 50 tons per day, the applicability threshold. There are no other NSPS (326 IAC 12 and 40 CFR Part 60) applicable to this source.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this source.

#### State Rule Applicability - Entire Source

#### 326 IAC 2-6 (Emission Reporting)

This source is located in Blackford County and the potential to emit any criteria pollutant is less than hundred (100) tons per year. Therefore, 326 IAC 2-6 does not apply.

#### 326 IAC 5-1 (Visible Emissions Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

#### State Rule Applicability - Individual Facilities

#### 326 IAC 4-2-2 (Incinerators: Requirements)

This rule applies to this incinerator operation. Pursuant to 326 IAC 4-2-2 (Incinerators: Requirements), All incinerators shall:

- I. consist of primary and secondary chambers or the equivalent;
- II. be equipped with a primary burner unless burning wood products:
- III. comply with 326 IAC 5-1 and 326 IAC 2;
- IV. be maintained properly as specified by the manufacturer and approved by the commissioner:
- V. be operated according to the manufacturer's recommendations and only burn waste approved by the commissioner;
- VI. comply with other state and/or local rules or ordinances regarding installation and operation of incinerators;
- VII. be operated so that emissions of hazardous material including, but not limited to, viable pathogenic bacteria, dangerous chemicals or gases, or noxious odors are prevented;
- VIII. not emit particulate matter in excess of three-tenths (0.3) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas at standard conditions corrected to fifty percent (50%) excess air; and
- IX. not create a nuisance or a fire hazard.

Based on condition VIII above, allowable PM emissions are:

Allowable PM = 0.3 pounds per one thousand (1,000) pounds of dry exhaust gas at standard

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conditions. As stated in the permit application the Manufacturer's guaranteed particulate emission rate is 0.3 pounds particulate matter per 1000 pound dry exhaust gas corrected to 50% excess air. Therefore this operation will comply with 326 IAC 4-2-2.

#### 326 IAC 9-1-1 (Carbon Monoxide Emission Limit)

The incinerator burns the waste gas stream in a secondary chamber, which is equipped with a secondary burner. This is equivalent to a direct flame after burner control. Therefore the incinerator complies with this rule.

#### Conclusion

The construction and operation of this Animal Cremation Unit shall be subject to the conditions of the attached Registration R179-12659-00029.

### Appendix A: Emission Calculations Incinerator

Company Name: Pet Rest Inc.

Address City IN Zip: 11640 S 200 E, Montpelier, IN 47359

**CP**: 179-12659 **PIt ID**: 179-00029

Reviewer: Gurinder Saini

Date: September 6, 2000

THROUGHPUT

lbs/hr 1100 **THROUGHPUT** 

ton/yr 4818

	POLLUTANT				
	PM	SO2	CO	VOC	NOX
Emission Factor in lb/ton	7.0	2.5	10.0	3.0	3.0
Potential Emissions in ton/yr	16.9	6.0	24.1	7.2	7.2

#### Methodology

Emission factors are from AP 42 (5th Edition 1/95) Table 2.1-12, Uncontrolled emission factors for industrial/commercial refuse combustors, multiple chambers

Throughput (lb/hr) \* 8760 hr/yr \* ton/2000 lb = throughput (ton/yr)